

Appl. No. 10/799,800
Amendment and/or Response
Reply to Office action of 27 January 2005

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-10 (Canceled)

11. (Previously presented) A patterned optical layer comprising a film that includes a pattern of first area segments and second area segments, wherein:

- the first area segments provide a first optical retardation;
- the second area segments provide a second optical retardation; and
- the second optical retardation is substantially less than the first optical retardation.

12. (Previously presented) The patterned optical layer of claim 11, wherein the pattern provides for pairs of adjacent first area segments and second area segments.

13. (Previously presented) The patterned optical layer of claim 11, wherein the pattern provides for a two-dimensional array of pairs of adjacent first area segments and second area segments.

14. (Previously presented) The patterned optical layer of claim 13, wherein the two-dimensional array of pairs corresponds to an array of pixels in a display device.

15. (Previously presented) The patterned optical layer of claim 11, wherein:

- the first area segments include a polymerized liquid crystal material; and
- the second area segments include a transparent material.

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16. (Previously presented) The patterned optical layer of claim 11, wherein:
the first area segments include a first polymerized liquid crystal material in a nematic liquid crystal phase; and
the second area segments include a second polymerized liquid crystal material in a clear state.
17. (Previously presented) The patterned optical layer of claim 11, wherein:
the first area segments include a first polymerized liquid crystal material having a planar orientation at a first angle; and
the second area segments include a second polymerized liquid crystal material having a planar orientation at a second angle,
the first angle being substantially different from the second angle.
18. (Previously presented) The patterned optical layer of claim 17, wherein a difference between the first angle and the second angle is approximately 45 degrees.
19. (Previously presented) The patterned optical layer of claim 11, wherein:
the first area segments include a first polymerized liquid crystal material having a first birefringence value; and
the second area segments include a second polymerized liquid crystal material having a second birefringence value,
the first birefringence value being substantially greater than the second birefringence value.
20. (Previously presented) The patterned optical layer of claim 11, wherein:
the first optical retardation is in a range of 80 to 100 degrees; and
the second optical retardation is at or near zero degrees.

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21. (Previously presented) A transflective display device comprising:
a plurality of pixels; and
a patterned optical layer that includes a pattern of pairs of first area segments and second area segments, each pair of the plurality of pairs corresponding to each pixel of the plurality of pixels,
wherein:
the first area segments provide a first optical retardation;
the second area segments provide a second optical retardation; and
the second optical retardation is substantially less than the first optical retardation.

22. (Previously presented) The transflective display device of claim 21, wherein:
the first area segment of each pixel corresponds to a reflective portion of the pixel; and
the second area segment of each pixel corresponds to a transmissive portion of the pixel.

23. (Previously presented) The transflective display device of claim 21, including a pair of polarizing layers that sandwich the pixels and the patterned optical layer.

24. (Previously presented) The transflective display device of claim 23, wherein each pixel includes liquid crystal material sandwiched between electrodes.

25. (Previously presented) The transflective display device of claim 21, wherein:
the first area segments include a polymerized liquid crystal material; and
the second area segments include a transparent material.

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26. (Previously presented) The transflective display device of claim 21, wherein:
the first area segments include a first polymerized liquid crystal material in a nematic liquid crystal phase; and
the second area segments include a second polymerized liquid crystal material in a clear state.
27. (Previously presented) The transflective display device of claim 21, wherein:
the first area segments include a first polymerized liquid crystal material having a planar orientation at a first angle; and
the second area segments include a second polymerized liquid crystal material having a planar orientation at a second angle,
the first angle being substantially different from the second angle.
28. (Previously presented) The transflective display device of claim 27, wherein the difference between the first angle and the second angle is approximately 45 degrees.
29. (Previously presented) The transflective display device of claim 21, wherein:
the first area segments include a first polymerized liquid crystal material having a first birefringence value; and
the second area segments include a second polymerized liquid crystal material having a second birefringence value,
the first birefringence value being substantially greater than the second birefringence value.
30. (Previously presented) The transflective display device of claim 21, wherein:
the first optical retardation is in a range of 80 to 100 degrees; and
the second optical retardation is at or near zero degrees.